





=&gt; d chib abs 1-6

## 10546005.trn

**Exhibit 1** One of three court exhibits. This one on the left, played in the presentation. Defense, Joseph A. Zelenay, Esq., of the Office of the Commonwealth, Boston, Massachusetts, Plaintiff v. Commonwealth of Massachusetts, et al., Defendants. Trial Court, Superior Court, Boston, Massachusetts, Trial Date, October 1, 2007, Trial No. 06-CR-10546-01. Trial Court Judge, Honorable John J. Sullivan, Trial Court Clerk, Honorable Michael J. O'Leary, Trial Court Clerk's Office, Boston, Massachusetts, Trial Court Clerk's Office Address, 250 Franklin Street, Boston, Massachusetts, 02110, Trial Court Clerk's Office Telephone Number, (617) 727-3211, Trial Court Clerk's Office Facsimile Number, (617) 727-3212, Trial Court Clerk's Office Email Address, [trialclerk@state.ma.us](mailto:trialclerk@state.ma.us), Trial Court Clerk's Office Internet Address, <http://www.state.ma.us/trialclerk/>. Trial Court Clerk's Office Address, 250 Franklin Street, Boston, Massachusetts, 02110, Trial Court Clerk's Office Telephone Number, (617) 727-3211, Trial Court Clerk's Office Facsimile Number, (617) 727-3212, Trial Court Clerk's Office Email Address, [trialclerk@state.ma.us](mailto:trialclerk@state.ma.us), Trial Court Clerk's Office Internet Address, <http://www.state.ma.us/trialclerk/>.

In addition to its role in oxygen delivery, the liver also plays a role in maintaining homeostasis. It is involved in the metabolism of many substances, including drugs, alcohol, and hormones. It also plays a role in the regulation of blood glucose levels, protein synthesis, and lipid metabolism. The liver is a major site of detoxification, removing harmful substances from the blood. It also stores vitamins and minerals, such as iron and vitamin A. The liver is a complex organ with many functions, and its health is important for overall well-being.

**Exhibit 2** One of three court exhibits. This one on the left, played in the presentation. Defense, Joseph A. Zelenay, Esq., of the Office of the Commonwealth, Boston, Massachusetts, Plaintiff v. Commonwealth of Massachusetts, et al., Defendants. Trial Court, Superior Court, Boston, Massachusetts, Trial Date, October 1, 2007, Trial No. 06-CR-10546-01. Trial Court Judge, Honorable John J. Sullivan, Trial Court Clerk, Honorable Michael J. O'Leary, Trial Court Clerk's Office, Boston, Massachusetts, Trial Court Clerk's Office Telephone Number, (617) 727-3211, Trial Court Clerk's Office Facsimile Number, (617) 727-3212, Trial Court Clerk's Office Email Address, [trialclerk@state.ma.us](mailto:trialclerk@state.ma.us), Trial Court Clerk's Office Internet Address, <http://www.state.ma.us/trialclerk/>.

The liver is a vital organ that plays a key role in maintaining homeostasis. It is involved in the metabolism of many substances, including drugs, alcohol, and hormones. It also plays a role in the regulation of blood glucose levels, protein synthesis, and lipid metabolism. The liver is a major site of detoxification, removing harmful substances from the blood. It also stores vitamins and minerals, such as iron and vitamin A. The liver is a complex organ with many functions, and its health is important for overall well-being.

**Exhibit 3** One of three court exhibits. This one on the left, played in the presentation. Defense, Joseph A. Zelenay, Esq., of the Office of the Commonwealth, Boston, Massachusetts, Plaintiff v. Commonwealth of Massachusetts, et al., Defendants. Trial Court, Superior Court, Boston, Massachusetts, Trial Date, October 1, 2007, Trial No. 06-CR-10546-01. Trial Court Judge, Honorable John J. Sullivan, Trial Court Clerk, Honorable Michael J. O'Leary, Trial Court Clerk's Office, Boston, Massachusetts, Trial Court Clerk's Office Telephone Number, (617) 727-3211, Trial Court Clerk's Office Facsimile Number, (617) 727-3212, Trial Court Clerk's Office Email Address, [trialclerk@state.ma.us](mailto:trialclerk@state.ma.us), Trial Court Clerk's Office Internet Address, <http://www.state.ma.us/trialclerk/>.

The liver is a vital organ that plays a key role in maintaining homeostasis. It is involved in the metabolism of many substances, including drugs, alcohol, and hormones. It also plays a role in the regulation of blood glucose levels, protein synthesis, and lipid metabolism. The liver is a major site of detoxification, removing harmful substances from the blood. It also stores vitamins and minerals, such as iron and vitamin A. The liver is a complex organ with many functions, and its health is important for overall well-being.

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10546005 · TR

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patients

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NEWS 11	JUN 29	STN EXPRESS, "Version 8.2, now available
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NEWS 13	JUL 02	LMEDLINE coverage updated
NEWS 14	JUL 02	SCISEARCH enhanced with complete author names
NEWS 15	JUL 02	SCISEARCH accession numbers revised
NEWS 16	JUL 02	CA/Capitus enhanced with utility model patents from China
NEWS 17	JUL 16	Capitus enhanced with French and German abstracts
NEWS 18	JUL 18	CA/Capitus patent coverage enhanced
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NEWS 23	AUG 06	FESTA enhanced with new thesaurus edition
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NEWS 25	AUG 20	CA/Capitus enhanced with CAS indexing in pre-1907 records
NEWS 26	AUG 27	Full-text patent databases enhanced with predefined



10546005.trn

G1:0,S

Match level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
 11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:Atom  
 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS

L1 STRUCTURE UPLOADED

=> FIL\_SINGUIDE. ENTERED AT 11:42:39 ON 29 AUG 2007  
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 TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* \* \* \* \* Welcome to STN International \* \* \* \* \* \* \* \* \*

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 NEWS 2 MAY 01 New CAS web site launched  
 NEWS 3 MAY 08 CA/Caplus Indian patent publication number format defined  
 NEWS 4 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display fields

NEWS 5 MAY 21 BIOSIS reloaded and enhanced with archival data  
 NEWS 6 MAY 21 TOXCENTER enhanced with BIOSIS reload  
 NEWS 7 MAY 21 CA/Caplus enhanced with additional kind codes for German patents

NEWS 8 MAY 22 CA/Caplus enhanced with IPC reclassification in Japanese patents

NEWS 9 JUN 27 CA/Caplus enhanced with pre-1967 CAS Registry Numbers  
 NEWS 10 JUN 29 STN Viewer now available  
 NEWS 11 JUN 29 STN Express. Version 8.2, now available  
 NEWS 12 JUL 02 IMLINE coverage updated  
 NEWS 13 JUL 02 SCISearch enhanced with complete author names  
 NEWS 14 JUL 02 CHEMCA'S accession numbers revised

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NEWS 16 JUL 02 CA/Caplus enhanced with utility model patents from China  
 NEWS 17 JUL 16 CA/Caplus enhanced with French and German abstracts  
 NEWS 18 JUL 18 CA/Caplus patent coverage enhanced  
 NEWS 19 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification  
 NEWS 20 JUL 30 USGENE now available on STN  
 NEWS 21 AUG 06 CAS REGISTRY enhanced with new experimental property tags  
 NEWS 22 AUG 06 EELSTEIN updated with new compounds  
 NEWS 23 AUG 06 FSTA enhanced with new thesaurus edition  
 NEWS 24 AUG 13 CA/Caplus enhanced with additional kind codes for granted Patents

CA/Caplus enhanced with CAS indexing in pre-1907 records  
 Full-text patent databases enhanced with predefined Patent family display formats from INFODCB8

NEWS 25 AUG 20 CA/Caplus enhanced with additional experimental spectral property data

NEWS 26 AUG 27 USPAT02 now available on STN  
 NEWS 27 AUG 27 CAS REGISTRY enhanced with additional experimental spectral property data

NEWS 28 AUG 28

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2.  
 CURRENT MACINTOSH VERSION IS V6.0C(ENG) AND V6.0JC(JP),  
 AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

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FILE 'HOME' ENTERED AT 16:25:08 ON 29 AUG 2007

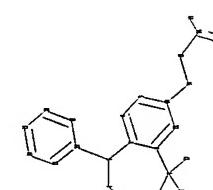
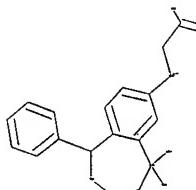
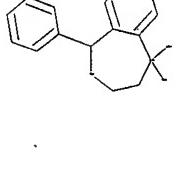
=> Uploading THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE  
 Do you want to switch to the Registry File?  
 Choice (Y/n):  
 Switching to the Registry File...  
 Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=) for a list of commands which can be used in this file.

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 STRUCTURE FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6  
 DICTIONARY FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6  
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 TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007  
 Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.  
 REGISTRY includes numerically searchable data for experimental and  
 predicted properties as well as tags indicating availability of  
 experimental property data in the original document. For information  
 on property searching in REGISTRY, refer to:  
<http://www.cas.org/support/stringen/stndoc/properties.html>  
 => Uploading C:\Program Files\Strnexp\Queries\10546005structure.str

10546005.trn  
 chain bonds :  
 1-12 1-13 5-18 10-14 14-15 15-16 16-17 16-24  
 ring bonds :  
 1-2 1-7 2-3 3-4 4-5 5-6 6-7 6-8 7-11 8-9 9-10 10-11 18-19 18-23 19-20  
 20-21 21-22 22-23  
 exact/norm bonds :  
 1-2 1-7 1-12 1-13 2-3 3-4 4-5 5-6 10-14 14-15 16-17 16-24  
 exact bonds :  
 5-18 15-16  
 normalized bonds :  
 6-7 6-8 7-11 8-9 9-10 10-11 18-19 18-23 19-20 20-21 21-22 22-23  
 G1:O,S  
 Match level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
 11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:Atom  
 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom  
 =>

L1 STRUCTURE uploaded  
 => d L1  
 L1 HAS NO ANSWERS  
 STR  
  
  
  
 chain nodes :  
 12 13 14 15 16 17 24  
 ring nodes :  
 1 2 3 4 5 6 7 8 9 10 11 18 19 20 21 22 23  
 G1 O, S

10546005.trn

Structure attributes must be viewed using STN Express query preparation.

```
=> S 11
SAMPLE SEARCH INITIATED 16:25:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 18 TO ITERATE
100.0% PROCESSED 18 ITERATIONS
SEARCH TIME: 00:00.01          0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH      **COMPLETE**
PROJECTED ITERATIONS: 106 TO 614
PROJECTED ANSWERS: 0 TO 0
```

L2 0 SEA SSS SAM L1

```
=> FIL STNGUIDE
FILE 'STNGUIDE' ENTERED AT 16:26:00 ON 29 AUG 2007
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```

```
=> Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do You want to switch to the Registry File?
Choice (Y/n):
```

Switching to the Registry File...
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=) for a list of commands which can be used in this file.

```
=> FILE REGISTRY
```

```
FILE 'REGISTRY' ENTERED AT 16:27:12 ON 29 AUG 2007
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```

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```
STRUCTURE FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6
DICTIONARY FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6
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New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

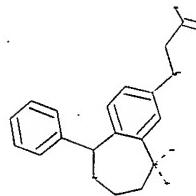
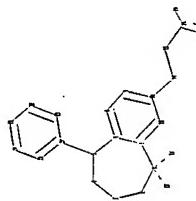
Please note that search-term pricing does apply when conducting SmartSELECT searches.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngent/stndoc/properties.html>

```
=> Uploading C:\Program Files\STNexp\Queries\10546005set.str
```



chain nodes :	12	13	14	15	16	17	24										
ring nodes :	1	2	3	4	5	6	7	8	9	10	11	18	19	20	21	22	23
chain bonds :	1-12	1-13	5-18	10-14	14-15	15-16	16-17	16-24									
ring bonds :	1-2	1-7	2-3	3-4	4-5	5-6	6-7	6-8	7-11	8-9	9-10	10-11	18-19	18-23	19-20		
exact/norm bonds :	20-21	21-22	22-23														
exact bonds :	1-2	1-7	1-12	1-13	2-3	3-4	4-5	5-6	10-14	14-15	16-17	16-24					
normalized bonds :	5-18	15-16															
6-7	6-8	7-11	8-9	9-10	10-11	18-19	18-23	19-20	20-21	21-22	22-23						

Page 16

```

10546005.trn
          SEARCH TIME: 00.00.01
          FULL FILE PROJECTIONS: ONLINE **COMPLETE**
          BATCH **COMPLETE**
          PROJECTED ITERATIONS:    106 TO   614
          PROJECTED ANSWERS:      0 TO     0

L4      0 SEA SSS SAM L3

=> s 13 full
      FULL SEARCH INITIATED 16:27:35 FILE 'REGISTRY'
      FULL SCREEN SEARCH COMPLETED - 331 TO ITERATE
      23 ANSWERS

100.0% PROCESSED 331 ITERATIONS
SEARCH TIME: 00.00.01

L5      23 SEA SSS FUL L3

=> d scan

```

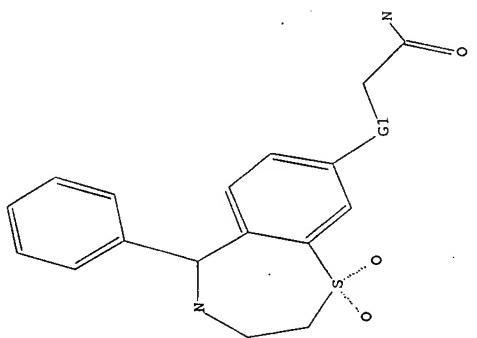
G1:O,S

Match level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom .10:Atom  
 11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:Atom  
 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS

L3 STRUCTURE UPLOADED

=> d 13  
 L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

```

=> s 13
      SAMPLE SEARCH INITIATED 16:27:27 FILE 'REGISTRY'
      SAMPLE SCREEN SEARCH COMPLETED - 18 TO ITERATE
      0 ANSWERS

100.0% PROCESSED 18 ITERATIONS

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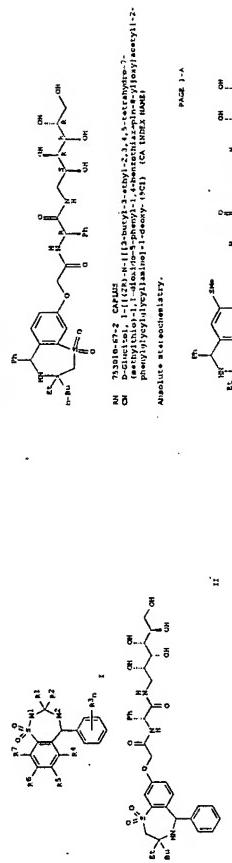




10546005.trn

=> d cbib abs hitstr 1-3

10546005.trn



**AB** Title couple, represented by the formula I (benzene, H<sub>2</sub> = H, aliphatic hydrocarbons, H<sub>2</sub> = H, aromatic hydrocarbons, H<sub>2</sub> = H, aldehydes, H<sub>2</sub> = H, ketones, H<sub>2</sub> = H, nitriles, H<sub>2</sub> = H, carboxylic acids, H<sub>2</sub> = H, esters, H<sub>2</sub> = H, amides, H<sub>2</sub> = H, alkyl halides, H<sub>2</sub> = H, acetone, H<sub>2</sub> = H, alcohols, H<sub>2</sub> = H, phenols, H<sub>2</sub> = H, ethers, H<sub>2</sub> = H, amines, H<sub>2</sub> = H, sulfides, H<sub>2</sub> = H, phosphates, H<sub>2</sub> = H, etc.). H<sub>2</sub> = H, independently substituted carbon or sulfur n = 0-5, and phospha substituted salts, sulfides, or sulfonates of such a salt or a product thereof were prepared as ideal title solvates of such a salt or a product thereof were prepared as ideal title

(REPORTER'S LOG) WIRE US EW 100% TURNAKEY ROMANIA FAD I MICHIGAN MI

Page 28





10546005.trn

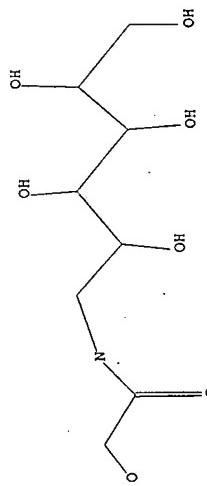
2-3 3-4 4-5 5-6 6-7 13-15

G1:O,S

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS

L7 STRUCTURE UPLOADED  
=> d 17  
L7 HAS NO ANSWERS  
L7 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s 17  
SAMPLE SEARCH INITIATED 17:03:13 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 1010 TO ITERATE

100.0% PROCESSED 1010 ITERATIONS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: BATCH \*\*COMPLETE\*\*  
PROJECTED ANSWERS: 18294 TO 22106  
389  
100.0% PROCESSED 19353 ITERATIONS  
SEARCH TIME: 00.00.01

L8 10 SEA SSS SAM L7

=> s 17 full  
FULL SEARCH INITIATED 17:03:17 FILE 'REGISTRY'.  
FULL SCREEN SEARCH COMPLETED - 19353 TO ITERATE  
100.0% PROCESSED 19353 ITERATIONS  
SEARCH TIME: 00.00.01

10546005.trn

L9 127 SEA SSS FUL L7

=> file caplus  
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=> s 19  
L10 42 19

=> s 110 and bile  
61800 BILE  
344 BILES  
61814 BILE  
(BILE OR BILES)

L11 1 L10 AND BILE

=> d scan

10 ANSWERS

=> s 17  
SAMPLE SEARCH INITIATED 17:03:13 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1010 TO ITERATE

10 ANSWERS

100.0% PROCESSED 1010 ITERATIONS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: BATCH \*\*COMPLETE\*\*  
PROJECTED ANSWERS: 18294 TO 22106  
389

127 ANSWERS

10546005.trn

10546005.TER

=> s 110 and ibat  
 366 IBAT  
 L12 0 L10 AND IBAT

=> s 110 and transport  
 751580 TRANSPORT  
 6379 TRANSPORTS  
 754156 TRANSPORT  
 (TRANSPORT OR TRANSPORTS)

L13 0 L10 AND TRANSPORT

=> s 110 and inhibitor  
 549359 INHIBITOR  
 551130 INHIBITORS  
 862893 INHIBITOR  
 (INHIBITOR OR INHIBITORS)

L14 6 L10 AND INHIBITOR

Page 36

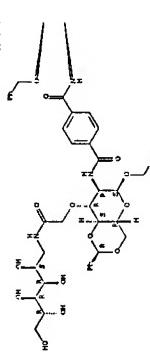




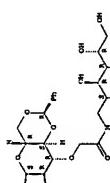
1056005-5.CRN

L14 ANSWER 3 OF 4 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)



PAGE 1-A

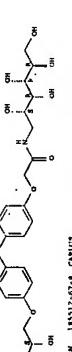


PAGE 1-B

L14 ANSWER 4 OF 4 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

PAGE 1-A

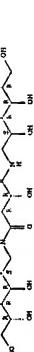


PAGE 1-B

L1512-01-4 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

PAGE 1-C

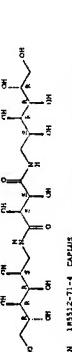


PAGE 1-D

L1512-01-4 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

PAGE 1-E

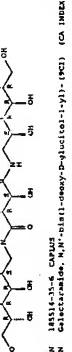


PAGE 1-F

L1512-01-4 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

PAGE 1-G



PAGE 1-H

L1512-01-4 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

PAGE 1-I

1056005-5.CRN

L14 ANSWER 4 OF 4 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

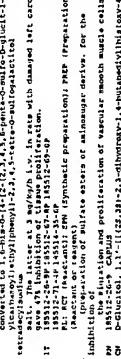
L14 ANSWERS 4 OF 4 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

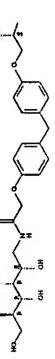
PAGE 1-A



PAGE 1-B



PAGE 1-C

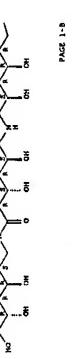


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L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

PAGE 1-A



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PAGE 1-C



PAGE 1-D

L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

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L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

PAGE 1-G

L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

PAGE 1-H

L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

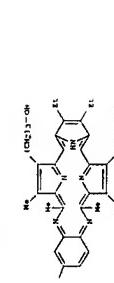
(Continued)

PAGE 1-I

L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

PAGE 1-A



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PAGE 1-D

L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

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L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

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L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

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L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

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L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

PAGE 1-M

L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

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PAGE 1-H

L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

PAGE 1-I

L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

PAGE 1-J



PAGE 1-K

L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

PAGE 1-L

L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

PAGE 1-M

L14 ANSWER 5 OF 6 CAPTUS COPYRIGHT 2007 ACTS on STH

(Continued)

PAGE 1-N

Page 42

10546005.trn

=> FIL STNGUIDE  
FILE 'STNGUIDE' ENTERED AT 17:05:05 ON 29 AUG 2007  
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACCS)  
FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Aug 24, 2007 (20070824/UP).  
=> d his

(FILE 'HOME' ENTERED AT 16:23:08 ON 29 AUG 2007)

FILE 'REGISTRY' ENTERED AT 16:25:17 ON 29 AUG 2007  
STRUCTURE uploaded  
L1 0 S L1

FILE 'STNGUIDE' ENTERED AT 16:26:00 ON 29 AUG 2007

FILE 'REGISTRY' ENTERED AT 16:27:12 ON 29 AUG 2007  
STRUCTURE uploaded  
L3 0 S L3  
L4 23 S L3 FULL

FILE 'CAPLUS' ENTERED AT 16:28:46 ON 29 AUG 2007  
3 S L5

FILE 'STNGUIDE' ENTERED AT 16:39:06 ON 29 AUG 2007

FILE 'REGISTRY' ENTERED AT 17:02:42 ON 29 AUG 2007  
STRUCTURE uploaded  
L7 10 S L7  
L8 127 S L7 FULL

FILE 'CAPLUS' ENTERED AT 17:03:27 ON 29 AUG 2007  
L10 42 S L9  
L11 1 S L10 AND BILE  
L12 0 S L10 AND IBAT  
L13 0 S L10 AND TRANSPORT  
L14 6 S L10 AND INHIBITOR

FILE 'STNGUIDE' ENTERED AT 17:05:05 ON 29 AUG 2007

=> s 110 and lipid  
COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID  
The query entered contains both search terms created by structure-building or screen commands and text search terms. L#s created via the STRUCTURE or SCREEN commands must be searched in the structures files separately from text terms or profiles. The L# answer sets from structure searches can be used in crossover searches and can be combined with text terms.

=> FIL CAPLUS  
FILE 'CAPLUS' ENTERED AT 17:06:30 ON 29 AUG 2007  
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FILE COVERS 1907 - 29 Aug 2007 VOL 147 ISS 10  
FILE LAST UPDATED: 28 Aug 2007 (20070828/ED)  
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They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s 110 and lipid  
232226 LIPID  
214063 LIPIDS  
358625 LIPID  
(LIPID OR LIPIDS)

=> d scan

L15 4 L10 AND LIPID

FIL CAPLUS  
FILE 'CAPLUS' ENTERED AT 17:06:30 ON 29 AUG 2007  
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518

FILE: 'HOME' ENTERED AT 16:25:08 ON 29 AUG 2007

'REGISTRY' ENTERED AT 16:25:17 ON 29 AUG 2007

STRUCTURE UPLOADED 0 6/11

卷之三

STRUCTURE UPLOADED

23 S' L3 FULL

FILE 'CAPJUS' ENTERED AT 16:28:46 ON 29 AUG 2007

35

LE 'STNGUIDE' ENTERED AT 16:39:06 ON 29 AUG 2007

LE 'REGISTRY' ENTERED AT 17:02:42 ON 29 AUG 2007

10 S 17

卷之三

FILE : CAPLUS ENTERED AI 1/:Z/ ON 29 AUG 2001

LIU AND BILLE 111

115 4 S L10 END LIPID

=> d scan 111

10546005, EN

ALL AUTHOR'S HAVE BEEN SCANNED

LE 'STNGUIDE' ENTERED AT 17:05:05 ON 29 AUG 2007

LE 'CAPLUS' ENTERED AT 17:06:30 ON 29 AUG 2007

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U.S. AIR  
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=> d his  
 (FILE 'HOME' ENTERED AT 16:25:08 ON 29 AUG 2007)

FILE 'REGISTRY' ENTERED AT 16:25:17 ON 29 AUG 2007  
 L1       STRUCTURE UPLOADED  
 L2       0 S L1

FILE 'STNGUIDE' ENTERED AT 16:26:00 ON 29 AUG 2007  
 L3       STRUCTURE UPLOADED  
 L4       0 S L3  
 L5       23 S L3 FULL

FILE 'CAPLUS' ENTERED AT 16:28:46 ON 29 AUG 2007  
 L6       3 S L5

FILE 'STNGUIDE' ENTERED AT 16:39:06 ON 29 AUG 2007  
 FILE 'REGISTRY' ENTERED AT 17:02:42 ON 29 AUG 2007  
 L7       STRUCTURE UPLOADED  
 L8       10 S L7  
 L9       127 S L7 FULL

FILE 'CAPLUS' ENTERED AT 17:03:27 ON 29 AUG 2007  
 L10      42 S L9  
 L11      1 S L10 AND BILE  
 L12      0 S L10 AND IBAT  
 L13      0 S L10 AND TRANSPORT  
 L14      6 S L10 AND INHIBITOR

FILE 'STNGUIDE' ENTERED AT 17:05:05 ON 29 AUG 2007  
 FILE 'CAPLUS' ENTERED AT 17:06:30 ON 29 AUG 2007  
 L15      4 S L10 AND LIPID

=> file reg  
 FILE 'REGISTRY' ENTERED AT 17:07:46 ON 29 AUG 2007  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
 COPYRIGHT (C) 2007 American Chemical Society (ACS)  
 Property values tagged with IC are from the ZIC/VINTI data file  
 provided by InfoChem.

STRUCTURE FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6  
 DICTIONARY FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

- Please note that search-term pricing does apply when
  - .conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and

predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> s 501-663-91-8  
 L1       10673 501  
 L2       0 663-91-8  
 L3       0 501-663-91-8  
 L4       (501 (W) 663-91-8)

=> s 501663-91-8  
 L5       1 501663-91-8  
 L6       (501663-91-8/RN)

=> d L17/rid  
 'L17' MUST END IN '/Q', '/A', '/L', '/S' OR '/B'  
 The saved name for a query (or structure or screen set) must end with '/Q'. The saved name for an answer set must end with '/A'. The saved name for an L# list must end with '/L'. SDI request names must end with '/S'. To see a list of all saved query, answer set, and L# list names for this loginid, enter "DISPLAY SAVED" at an arrow prompt (>). Enter "DISPLAY SAVED/S" to see a list of SDI request names. Enter "DISPLAY SAVED/B" to see a list of BATCH search requests.

=> d rid 117  
 'RID' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG	= RN
SAM	- Index Name, MF, and structure - no RN
FIDE	- All substance data, except sequence data
IDE	- FIDE, but only 50 names
SOLDE	- IDE, plus sequence data
SQDE3	- Same as SOLDE, but 3-letter amino acid codes are used
SQD3	- Protein sequence data, includes RN
SQN	- Same as SQD3, but 3-letter amino acid codes are used
CALC	- Table of calculated properties
EPROP	- Table of experimental properties
PROP	- EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA file predefined formats are:

- ABS -- Abstract
- APPS -- Application and Priority Information
- BIB -- CA Accession Number, plus Bibliographic Data

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CAN -- CA Accession Number, plus Bibliographic Data (compressed)  
CBIB -- CA Accession Number, plus Bibliographic Data  
IND -- Index Data  
IPC -- International Patent Classification  
PATS -- PI, SO  
STD -- BIB, IPC, and NCL  
IABS -- ABS, indented, with text labels  
IBIB -- BIB, indented, with text labels  
ISTD -- STD format, indented  
OBIB ----- AN, plus Bibliographic Data (original)  
OBIB ----- OBIB, indented with text labels  
SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IAU format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.  
HELP FORMATS -- To see detailed descriptions of the predefined formats.  
ENTER DISPLAY FORMAT (IDE) re: 'RE IS NOT A VALID FORMAT FOR FILE 'REGISTRY'.

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN  
SAM - Index Name, MF, and structure - no RN  
FIDE - All substance data, except sequence data  
IDE - FIDE, but only 50 names  
SOLIDE - IDE, plus sequence data  
SQ1DE3 - Same as SQ1DE, but 3-letter amino acid codes are used  
SQD - Protein sequence data, includes RN  
SQD3 - Same as SQD, but 3-letter amino acid codes are used  
SQN - Protein sequence name information, includes RN  
CALC - Table of calculated properties  
EPROP - Table of experimental properties  
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract  
APTS -- Application and Priority Information

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BIB -- CA Accession Number, plus Bibliographic Data  
CAN -- CA Accession Number  
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)  
IND -- Index Data  
IPC -- International Patent Classification  
PATS -- PI, SO  
STD -- BIB, IPC, and NCL  
IABS -- ABS, indented, with text labels  
IBIB -- BIB, indented, with text labels  
ISTD -- STD format, indented  
OBIB ----- AN, plus Bibliographic Data (original)  
OBIB ----- OBIB, indented with text labels  
SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.  
The MAX format is the same as ALL.  
The IAU format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.  
HELP FORMATS -- To see detailed descriptions of the predefined formats.  
ENTER DISPLAY FORMAT (IDE) :ide





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=> d 117 rid  
'RID' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are:  
(RN = CAS Registry Number)

REG	- RN
SAM	- Index Name, MF, and structure - no RN
FIDE	- All substance data, except sequence data
IDE	- FIDE, but only 50 names
SOLDE	- IDE, plus sequence data
SOLDE3	- Same as SOLDE, but 3-letter amino acid codes are used
SOD	- Protein sequence data, includes RN
SQD	- Same as SQD, but 3-letter amino acid codes are used
SQN	- Protein sequence name information, includes RN
CALC	- Table of calculated properties
EPROP	- Table of experimental properties
PROP	- EPROP and CALC

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APPS	-- Application and Priority Information
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IPC	-- International Patent Classification
PATS	-- Pt, SO
STD	-- BIB, IPC, and NCL
IABS	<sup>p</sup> ABS, indented, with text labels
IBIB	-- BIB, indented, with text labels
ISTD	-- STD format, indented
OBIB	----- AN, plus Bibliographic Data (original)
OIBIB	----- OBIB, indented with text labels
SBIB	----- BIB, no citations
SIBIB	----- IIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.  
The MAX format is the same as ALL.  
The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP FIELDS -- To see a complete list of individual display fields.

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HELP FORMATS -- To see detailed descriptions of the predefined formats.  
ENTER DISPLAY FORMAT (IDE) rid  
'RID' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are:  
(RN = CAS Registry Number)

REG	- RN
SAM	- Index Name, MF, and structure - no RN
FIDE	- All substance data, except sequence data
IDE	- FIDE, but only 50 names
SOLDE	- IDE, plus sequence data
SOLDE3	- Same as SOLDE, but 3-letter amino acid codes are used
SOD	- Protein sequence data, includes RN
SQD	- Same as SQD, but 3-letter amino acid codes are used
SQN	- Protein sequence name information, includes RN
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EPROP	- Table of experimental properties
PROP	- EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS	-- Abstract
APPS	-- Application and Priority Information
BIB	-- CA Accession Number, plus Bibliographic Data
CAN	-- CA Accession Number, plus Bibliographic Data
CBIB	-- CA Accession Number, plus Bibliographic Data (compressed)
IND	-- Index Data
IPC	-- International Patent Classification
PATS	-- Pt, SO
STD	-- BIB, IPC, and NCL
IABS	ABS, indented, with text labels
IBIB	-- BIB, indented, with text labels
ISTD	-- STD format, indented
OBIB	----- AN, plus Bibliographic Data (original)
OIBIB	----- OBIB, indented with text labels
SBIB	----- BIB, no citations
SIBIB	----- IIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.  
The MAX format is the same as ALL.  
The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP FIELDS -- To see a complete list of individual display fields.



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messages:

HELP FIELDS -- To see a complete list of individual display fields.  
HELP FORMATS -- To see detailed descriptions of the predefined formats.  
ENTER DISPLAY FORMAT (IDE) -end  
=> help dfields

The display fields that you may use to display REGISTRY file records are listed below. You may use any of the SUBSTANCE INFORMATION FIELD CODES or PROPERTY FIELD CODES with the DISPLAY and PRINT commands. You may also use any of the CA DOCUMENT REFERENCE FIELD CODES OR PREDEFINED FORMATS, but these must always be combined with one of the Substance Information Fields or formats. The fields appear in the order you request them.

The Component Number (CM) field code appears in records for multicomponent substances but is not a custom display field.

Substance Information Display Field Codes

AF	Alternate Molecular Formula
AR	Alternate CAS Registry Number
CCJ	Component Class Identifier
CCN	Condensed Chemical Name (all names)
CI	Class Identifier
CIL	Component Isotope at Unknown Location
CHF	Component Molecular Formula
CN	Chemical Name (up to 50)
COMP	Composition CAS Registry Number
CRN	Component CAS Registry Number
DEF	Definition
DR	Deleted CAS Registry Number
ED	Entry Date
ENTE	Editor Note
FCN	All Chemical Names
FS	File Segment
IL	Isotope at Unknown Location
IN	CA Index Name
LC	CAS Registry Number Locator
MF	Molecular Formula
PCT	Polymer Class Term
PR	Preferred CAS Registry Number
REF	Number of References in Caplus, CA, and CAOLD files and the number of references in CA for the non-specific derivatives
RN	CAS Registry Number
RR	Replacing Registry Number
RSD	Ring System Data
SCN	Short Chemical Name (IN and OTHER NAMES)
SR	Source of Registration
SRSD	Short Ring System Data
STR	Structure Diagram with stereo bond and R/S/Z/E designations, if available
STF	Fiat Structure Diagram (no stereo bonds)
STS	Structure Diagram with stereo bonds, if available

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Biosequence Field Codes

NA	Nucleic Acid
NTE	Note
PNT	Patent Annotation
SEQ	Sequence (1-letter amino acid codes)
SEQ3	Sequence (3-letter amino acid codes)
SQL	Sequence Length

Property Field Codes

BCF	Bioconcentration Factor
BP	Boiling Point
DEN	Density
ECND	Electric Conductivity
ECON	Electric Resistance
ERES	Electric Resistivity
EREST	Experimental Property Tags
ETAG	
FP	Flash Point
FRB	Freely Rotable Bonds
HAC	H Acceptors
HD	H donors
HDAS	H Donor/Acceptor Sum
HVAP	Enthalpy of Vaporization
ISLB	Mass Intrinsic Solubility
MASS	Organic Carbon Adsorption Coefficient
KOC	Median Lethal Dose
LD50	
LOGD	LogP
LOC	LogP
MM	Magnetic Moment
MP	Melting Point
MW	Molecular Weight
ORP	Optical Rotatory Power
PKA	Polar Surface Area
PSA	Refractive Index
RI	Mass Solubility
SUB	Molar Solubility
.MOEL	
SPEC	Spectra
SPC	Carbon-13 NMR Spectra
SPCIR	IR Absorption Spectra
SPCMASS	Mass Spectra
SPCMASS	Proton NMR Spectra
TG	Glass Transition Temperature
TS	Tensile Strength
VP	Vapor Pressure
Caplus	Super Roles and Document Type Display Field codes
DT.CA	Caplus document type
RL	Caplus super roles
RL.NP	Caplus super roles from non-patents
RL.P	Caplus super roles from patients
RLD (RL.D)	Caplus super roles for non-specific derivatives
RLD.NP	Caplus super roles for non-specific derivatives

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from non-patents  
Applause super roles for non-specific derivatives  
from patients  
Applause super roles for the specific substance

For more information on display options, enter HELP FORMAT at an arrow prompt (=>). To find out about extracting search terms from display fields, enter HELP SELECT and HELP ANALYZE. For a list of fields that may be used with the ANALYZE and SELECT commands, enter HELP EFIELDS.

117 15d

10546005.trn

L17 ANSWER 1 OF 1 PREGISTRY COPYRIGHT 2007 AGS ON 5TH  
 King System Data  
 Essential elements of filing system: Name, I.D.  
 Analysis of file: Categories, Period, Location, Reference  
 CC 10G 16 ICE 14G,15G,16,1C

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10546005.trn

=> s 937.123.1/rid  
L18 1632 937.123.1/RID

=> file caplus  
FILE 'CAPLUS' ENTERED AT 17:11:52 ON 29 AUG 2007  
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FILE COVERS 1907 - 29 Aug 2007 VOL 147 ISS 10  
FILE LAST UPDATED: 28 Aug 2007 (20070828/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.  
They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s 118  
L19 159 L18

=> s 119 and bile  
61800 BILE  
344 BILES  
61814 BILE

L20 27 L19 AND BILE  
(BILE OR BILES)

=> s 119 and ibat  
366 IBAT  
8 L19 AND IBAT

=> s 119 and bari  
339 BARI  
18 BARI  
357 BARI  
(BARI OR BARS)  
L22 0 L19 AND BARI

=> s 119 and lipid  
292226 LIPID  
214063 LIPIDS  
358625 LIPID  
(LIPID OR LIPIDS)  
L23 5 L19 AND LIPID

=> d cbib abs hitstr L21 1-8









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L11 ANSWER & OF A CAPLUS COPYRIGHT 2007 ACS on STN  
(cont'd next)

10546005.trn

=> FILE 'STNGUIDE' ENTERED AT 17:13:14 ON 29 AUG 2007  
FILE 'STNGUIDE' SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)  
FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Aug 24, 2007 (20070824/UP).

=> d his

FILE 'HOME' ENTERED AT 16:25:08 ON 29 AUG 2007  
FILE 'REGISTRY' ENTERED AT 16:25:17 ON 29 AUG 2007  
L1 STRUCTURE uploaded  
L2 0 S L1  
FILE 'STNGUIDE' ENTERED AT 16:26:00 ON 29 AUG 2007  
FILE 'REGISTRY' ENTERED AT 16:27:12 ON 29 AUG 2007  
L3 STRUCTURE uploaded  
L4 0 S L3  
L5 23 S L3 FULL  
FILE 'CAPLUS' ENTERED AT 16:28:46 ON 29 AUG 2007  
L6 3 S L5  
FILE 'STNGUIDE' ENTERED AT 16:39:06 ON 29 AUG 2007  
FILE 'REGISTRY' ENTERED AT 17:02:12 ON 29 AUG 2007  
L7 STRUCTURE uploaded  
L8 10 S L7  
L9 127 S L7 FULL  
FILE 'CAPLUS' ENTERED AT 17:03:27 ON 29 AUG 2007  
L10 42 S L9  
L11 1 S L10 AND BILE  
L12 0 S L10 AND IBAT  
L13 0 S L10 AND TRANSPORT  
L14 6 S L10 AND INHIBITOR  
FILE 'STNGUIDE' ENTERED AT 17:05:05 ON 29 AUG 2007  
FILE 'CAPLUS' ENTERED AT 17:06:30 ON 29 AUG 2007  
L15 4 S L10 AND LIPID  
FILE 'REGISTRY' ENTERED AT 17:07:46 ON 29 AUG 2007  
L16 0 S 501-663-91-8  
L17 1 S 501663-91-8  
L18 1652 S 937-423-1/RID  
FILE 'CAPLUS' ENTERED AT 17:11:52 ON 29 AUG 2007  
L19 159 S L18  
L20 27 S L19 AND BILE  
L21 8 S L19 AND IBAT  
L22 0 S L19 AND BARI  
L23 5 S L19 AND LIPID

10546005.trn

FILE 'STNGUIDE' ENTERED AT 17:13:14 ON 29 AUG 2007

=> s 120 and SAR  
'RID' IS NOT A VALID FIELD CODE  
0 9371 123.1/RID  
0 BILE  
0 SAR  
L24 0 120 AND SAR

=> FIL CAPLUS  
FILE 'CAPLUS' ENTERED AT 17:15:23 ON 29 AUG 2007  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE COVERS 1907 - 29 Aug 2007 VOL 147 ISS 10  
FILE LAST UPDATED: 28 Aug 2007 (20070828/ED)

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=> s 120 and SAR  
11688 SAR  
4115 SARS  
15503 SAR  
L25 0 120 AND SAR  
  
=> s 120 and Structure activity  
2954062 STRUCTURE  
795321 STRUCTURES  
3325146 STRUCTURE  
2225565 ACTIVITY  
448733 ACTIVITIES  
2444372 ACTIVITY  
92355 STRUCTURE ACTIVITY  
L26 2 120 AND STRUCTURE ACTIVITY

=> dscan  
DSCAN IS NOT A RECOGNIZED COMMAND  
The previous command name entered was not recognized by the system.

10546005.trn

For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (=)>  
=> d scan





10546005.trn

10546005.trn

=> s 127  
REGISTRY INITIATED  
Substance data SEARCH and crossover from CAS REGISTRY in progress...  
Use DISPLAY HITSSTR (or FHITSSTR) to directly view retrieved structures.



SAMPLE SEARCH INITIATED 17:26:48 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 422 TO ITERATE

100.0% PROCESSED 422 ITERATIONS 7 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 7208 TO 9672

PROJECTED ANSWERS: 7 TO 298

L28 7 SEA SSS SAM L27

L29 11 L28

=> FIL REGISTRY  
FILE 'REGISTRY' ENTERED AT 17:26:54 ON 29 AUG 2007  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfOChem.

STRUCTURE FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6  
DICTIONARY FILE UPDATES: 28 AUG 2007 HIGHEST RN 945714-55-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SMARTSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stndgen/stndoc/properties.html>

=> d scan 128

```

10546005.trn
=> d his
      FILE 'HOME' ENTERED AT 16:25:08 ON 29 AUG 2007
      (FILE 'REGISTRY' ENTERED AT 17:26:48 ON 29 AUG 2007
L28    FILE 'STRUCTURE' UPLOADED
L29    FILE 'CAPLUS' ENTERED AT 17:26:48 ON 29 AUG 2007
      FILE 'REGISTRY' ENTERED AT 17:26:54 ON 29 AUG 2007
      => s 127 full
      FULL SEARCH INITIATED 17:27:19 FILE 'REGISTRY'.
      FULL SCREEN SEARCH COMPLETED - 7541 TO ITERATE
      100.0% PROCESSED 7541 ITERATIONS
      SEARCH TIME: 00:00.01
      118 ANSWERS
L30    118 SEA SSS FUL L27

      => file caplus
      FILE 'CAPLUS' ENTERED AT 17:27:24 ON 29 AUG 2007
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      => s 130
      L31    52 L30
      => s 131 and lipid
      292226 LIPID
      214053 LIPIDS
      358625 LIPID
      => s 131 and ibat
      L32    4 L31 AND IBAT
      L33    366 IBAT
      4 L31 AND IBAT

      FILE 'STNGUIDE' ENTERED AT 17:13:14 ON 29 AUG 2007
L19    FILE 'CAPLUS' ENTERED AT 17:11:52 ON 29 AUG 2007
L20    159 S L18
L21    27 S L19 AND BILE
L22    8 S L19 AND IBAT
L23    0 S L19 AND BART
L24    5 S L19 AND LIPID

      FILE 'STNGUIDE' ENTERED AT 17:15:23 ON 29 AUG 2007
L25    FILE 'CAPLUS' ENTERED AT 17:15:23 ON 29 AUG 2007
      FILE 'STRUCTURE' UPLOADED
L26    0 S L20 AND SAR
L27    2 S L20 AND STRUCTURE ACTIVITY
      S L27

```



0546005.tifn

```
> d ebib abs hitstr 1=7
```

10546005 trn

LBM accepted 7 Oct 2008; corrected 27 Oct 2008; accepted 8 Nov 2008; published online 1 Dec 2008. © 2008 The Authors  
 Journal compilation © 2008 Association for Child and Adolescent Mental Health.

**Introduction** In recent years, there has been a growing interest in the use of stem cells in the treatment of psychiatric disorders. In particular, the ability of stem cells to differentiate into neurons has led to the hope that they may be used to regenerate damaged brain tissue. This article reviews the current literature on the use of stem cells in the treatment of psychiatric disorders, with a focus on the use of embryonic stem cells (ESCs) and induced pluripotent stem cells (iPSCs).

**Embryonic stem cells** ESCs are derived from the inner cell mass of a developing embryo. They have the ability to differentiate into all types of cells in the body. ESCs have been used to study the development of the nervous system and to model various diseases. They have also been used to generate neurons for the treatment of neurological disorders such as Parkinson's disease and multiple sclerosis.

**Induced pluripotent stem cells** iPSCs are derived from adult somatic cells, such as skin cells or blood cells. These cells are reprogrammed to become pluripotent, meaning they can differentiate into any type of cell. iPSCs have been used to study the development of the nervous system and to model various diseases. They have also been used to generate neurons for the treatment of neurological disorders such as Parkinson's disease and multiple sclerosis.

**Psychiatric disorders** Psychiatric disorders are complex conditions that affect the brain and behavior. They include depression, anxiety, schizophrenia, and autism. There is currently no cure for most psychiatric disorders, although there are treatments available.

**Stem cell therapy** Stem cell therapy involves using stem cells to regenerate damaged tissue. In the case of psychiatric disorders, stem cells could be used to regenerate damaged brain tissue, potentially leading to improved symptoms.

**Conclusion** Stem cell therapy holds promise for the treatment of psychiatric disorders. However, more research is needed to fully understand the potential benefits and risks of this approach.

The figure shows the chemical structure of compound 1 (left) and its side-chain (right). Compound 1 consists of a central benzene ring substituted with a 4-(4-phenyl-4H-1,2-dioxin-3-ylmethyl)-1,2-dihydro-3H-1,2-dioxin-3-yl group at the para position. The side-chain is a 4-aminobutyl group attached to the dioxin ring. The side-chain is further substituted with a 4-((S)-4-hydroxybutyl)phenyl group at the para position and a 4-((R)-4-hydroxybutyl)phenyl group at the meta position. The terminal part of the side-chain is a 4-hydroxybutyl group.

1-a  
 2-a

**Page 90**  
23.4.4.1. *Dynamic topography* (*calm*)  
In this case, the water surface is at its natural level. The water surface is at its natural level. The water surface is at its natural level.





10546005.trn

=> logoff

ALL LH QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:Y  
COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 17:34:10 ON 29 AUG 2007

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	51.35	746.63
	SINCE FILE ENTRY	TOTAL SESSION
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	-6.24	-21.84